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☐ 1. Document ID: EP 1003863 A1, WO 9907848 A1, AU 9886737 A, US 5965704 A

L1: Entry 1 of 4

File: DWPI

May 31, 2000

DERWENT-ACC-NO: 1999-167425

DERWENT-WEEK: 200031

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TITLE: Novel human cytokine receptor Zcytor11 - useful for screening for ligands to modulate or promote proliferation and/or differentiation of e.g. pancreatic or colon tissue

INVENTOR: ADAMS, R L; FARRAH, T M ; JELMBERG, A C ; LOK, S ; WHITEMORE, T E ; WHITMORE, T E

PRIORITY-DATA:

1997US-0906713

August 5, 1997

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1003863 A1	May 31, 2000	E	000	C12N015/12
WO 9907848 A1	February 18, 1999	E	062	C12N015/12
AU 9886737 A	March 1, 1999	N/A	000	C12N015/12
US 5965704 A	October 12, 1999	N/A	000	C07K014/715

INT-CL (IPC): C07K 14/715; C07K 16/28; C07K 16/42; C12N 15/12; C12N 15/62; G01N 33/566

ABSTRACTED-PUB-NO: US 5965704A

BASIC-ABSTRACT:

NOVELTY - A mammalian cytokine receptor, designated Zcytor11, comprising amino acid residues 18-228 (the extracellular domain) of the 574 amino acid (aa) sequence given in the specification.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are disclosed for: (1) a 2831 bp DNA sequence (given in the specification) encoding Zcytor11; (2) an expression vector containing a promoter, the DNA of (1) and a transcriptional terminator operably linked together; (4) a transfected or transfected cell containing the vector of (2); (5) an antibody (Ab) specific for Zcytor11; (6) an anti-idiotypic Ab which binds the antigen binding site of the Ab of (5); and (7) methods of detecting Zcytor11 ligands.

USE - The novel Zcytor11 can be used to screen for ligands, agonists and antagonists affecting its activity. The (ant)agonists can be used to modulate or promote the proliferation and/or differentiation of pancreatic, small intestinal, colonic or thymus tissue. The sequence as in (1) may comprise nucleotides 34-1755 of the 2831 bp sequence.

ABSTRACTED-PUB-NO:

WO 9907848A EQUIVALENT-ABSTRACTS:

NOVELTY - A mammalian cytokine receptor, designated Zcytor11, comprising amino acid residues 18-228 (the extracellular domain) of the 574 amino acid (aa) sequence given in the specification.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are disclosed for: (1) a 2831 bp DNA sequence (given in the specification) encoding Zcytor11; (2) an expression vector containing a

(given in the specification) encoding Zcytor11; (2) an expression vector containing a promoter, the DNA of (1) and a transcriptional terminator operably linked together; (4) a transfected or transfected cell containing the vector of (2); (5) an antibody (Ab) specific for Zcytor11; (6) an anti-idiotypic Ab which binds the antigen binding site of the Ab of (5); and (7) methods of detecting Zcytor11 ligands.

USE - The novel Zcytor11 can be used to screen for ligands, agonists and antagonists affecting its activity. The (ant)agonists can be used to modulate or promote the proliferation and/or differentiation of pancreatic, small intestinal, colonic or thymus tissue. The sequence as in (1) may comprise nucleotides 34-1755 of the 2831 bp sequence.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw	Desc	Image
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☐ 2. Document ID: AU 9872760 A, WO 9849307 A1

L1: Entry 2 of 4

File: DWPI

Nov 24, 1998

DERWENT-ACC-NO: 1999-034662

DERWENT-WEEK: 199914

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TITLE: New mammalian cytokinin-like receptor Zcytor5 - useful for, e.g. down-regulating Zcytor5 natural ligands or detecting cardiotrophin-1 in blood

INVENTOR: ADAMS, R L; FOSTER, D C ; GILBERT, T ; JELMBERG, A C ; LEHNER, J M ; LOK, S ; PRESNELL, S R ; WHITMORE, T E

PRIORITY-DATA:

1998US-0074721	February 13, 1998
1997US-0045287	May 1, 1997
1997US-0850030	May 1, 1997
1998US-0023890	February 13, 1998

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 9872760 A	November 24, 1998	N/A	000	C12N015/12
WO 9849307 A1	November 5, 1998	E	055	C12N015/12

INT-CL (IPC): C07K 14/715; C07K 16/28; C12N 15/12

ABSTRACTED-PUB-NO: WO 9849307A

BASIC-ABSTRACT:

An isolated mammalian polypeptide (P1) having one of the twenty four amino acid sequences given in the specification, or a polypeptide at least 90% identical to one of these sequences, is new. Also claimed are: (1) an isolated polynucleotide encoding P1, particularly comprising DNA or RNA; (2) an expression vector comprising, operably linked, a transcription promoter, a DNA segment encoding P1, and a transcription terminator; (3) a peptide or polypeptide which has the amino acid sequence of an epitope-bearing portion of a Zcytor5 polypeptide (P2); (4) an antibody which specifically binds to P1 or P2; (5) an anti-idiotypic antibody of the above antibody, and (6) a method for producing an antibody which binds to a Zcytor5 polypeptide, comprising inoculating an animal with P2 under antibody producing conditions and isolating the antibodies.

USE - Soluble Zcytor5 may be administered to down-regulate the effects of a growth and/or maintenance factor in thyroid, heart, and skeletal muscle for example to lessen the effect of cardiotrophin-1 on cardiac pathologies, so preventing heart enlargement. Zcyto5 could be used to detect cardiotrophin-1 in the blood, and to discover other possible Zcytor5 ligands. A probe comprising Zcytor5 DNAa or RNA can be used to determine the presence and integrity of the Zcytor5 gene on chromosome 19. Antibodies and the anti-idiotypic antibody could be used to purify Zcytor5 and therapeutically to modify Zcytor5 ligand effects (claimed).

* modify Zcytor5 ligand effects (claimed).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: AU 9867623 A, WO 9842836 A1

L1: Entry 3 of 4

File: DWPI

Oct 20, 1998

DERWENT-ACC-NO: 1998-542279

DERWENT-WEEK: 199909

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TITLE: Human and mouse cytokine receptors - useful for promoting cell adhesion and diagnosing Burkitt's lymphoma and leukaemia

INVENTOR: ADAMS, R L; FARRAH, T M ; KHO, C J ; LOK, S ; POWNDER, T A ; WHITMORE, T

PRIORITY-DATA:

1997US-0041570

March 21, 1997

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 9867623 A	October 20, 1998	N/A	000	C12N015/12
WO 9842836 A1	October 1, 1998	E	064	C12N015/12

INT-CL (IPC): C07K 14/715; C07K 16/28; C12N 15/12; C12Q 1/68

ABSTRACTED-PUB-NO: WO 9842836A

BASIC-ABSTRACT:

A polynucleotide (I), encoding a mammalian Zcytor4 polypeptide (II), is new. Also claimed are: (a) an expression vector comprising, operably linked: a transcription promoter; a DNA segment encoding (II), or DNA encoding a chimeric polypeptide (PP) comprising (II) joined by a peptide bond to a second PP or protein; and a transcription terminator; (b) a cultured eukaryotic cell containing an expression vector as in (a); (c) isolated (II) with/without the initial methionine; and (d) an antibody (Ab) specifically binding (II).

USE. The tissue specificity of (II) indicates that (II) could promote tissue adhesion after an operation. (II) would also be useful to coat microtitre plates to promote adhesion of cells to the plates. (I) can be used as probes to check for abnormalities in chromosome 12. (I) and the vector can be used in gene therapy. (II), Abs and compounds with binding affinity to (II) can be used in the treatment of conditions associated with abnormal physiology and development. The Abs can be used as diagnostic tools in detecting Burkitt's lymphoma (BL), T-cell leukaemia (TL) lineages and myeloid leukaemia (ML).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 4. Document ID: EP 1009825 A1, WO 9837193 A1, AU 9865350 A, US 5945511 A

L1: Entry 4 of 4

File: DWPI

Jun 21, 2000

DERWENT-ACC-NO: 1998-480798

DERWENT-WEEK: 200033

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TITLE: Novel human Zcytor7 DNA encodes a type 2 cytokine receptor - useful for treating renal, neural, pancreatic and prostatic diseases

INVENTOR: ADAMS, R L; FARRAH, T M ; JELMBERG, A C ; KHO, C J ; LOK, S ; WHITMORE, T E

PRIORITY-DATA:

1997US-0943087

October 2, 1997

1997US-0803305

February 20, 1997

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1009825 A1	June 21, 2000	E	000	C12N015/12
WO 9837193 A1	August 27, 1998	E	071	C12N015/12
AU 9865350 A	September 9, 1998	N/A	000	C12N015/12
US 5945511 A	August 31, 1999	N/A	000	C07K001/00

INT-CL (IPC): C07K 1/00; C07K 14/715; C07K 16/28; C07K 16/42; C07K 19/00; C12N 15/12; C12N 15/62; G01N 33/50

ABSTRACTED-PUB-NO: US 5945511A

BASIC-ABSTRACT:

A polypeptide containing a subsequence of the 553 amino acid (aa) sequence given in the specification, and which is at least 20 aa long, is new.

Also claimed are: (1) an isolated polypeptide comprising aas 30 (Val) to 250 (Lys) of the 553 aa sequence, or allelic variants or sequences at least 80% identical to it; (2) a 3516 bp sequence given in the specification encoding the above polypeptides; (3) an expression vector containing the polynucleotide as in (2), operably linked to transcription promoter, a sequence encoding a transmembrane and intracellular domain, or both, and a transcriptional terminator; (4) an antibody (Ab) to the polypeptide as above; (5) an anti-idiotypic Ab which binds to and neutralises the Ab of (4); and (6) a chimeric polypeptide comprising a 1st portion linked to a 2nd portion by a peptide bond, where the 1st portion comprises the polypeptide of (1) and the 2nd portion is an affinity tag, especially an IgFc polypeptide.

USE - The gene encodes a novel member of the type 2 cytokine receptor family (CRF2) designated Zcytor7, especially its extracellular domain. The sequences can be used to study the Zcytor7 gene and to isolate ligands binding to it. Zcytor7 is preferentially expressed in the kidney, pancreas, prostate or nervous tissue. Agonists of Zcytor7 can be used to stimulate proliferation and differentiation of cell in these organs.

(Ant)agonists can also be used in the treatment of renal, neural, pancreatic and prostate diseases.

ABSTRACTED-PUB-NO:

WO 9837193A EQUIVALENT-ABSTRACTS:

A polypeptide containing a subsequence of the 553 amino acid (aa) sequence given in the specification, and which is at least 20 aa long, is new.

Also claimed are: (1) an isolated polypeptide comprising aas 30 (Val) to 250 (Lys) of the 553 aa sequence, or allelic variants or sequences at least 80% identical to it; (2) a 3516 bp sequence given in the specification encoding the above polypeptides; (3) an expression vector containing the polynucleotide as in (2), operably linked to transcription promoter, a sequence encoding a transmembrane and intracellular domain, or both, and a transcriptional terminator; (4) an antibody (Ab) to the polypeptide as above; (5) an anti-idiotypic Ab which binds to and neutralises the Ab of (4); and (6) a chimeric polypeptide comprising a 1st portion linked to a 2nd portion by a peptide bond, where the 1st portion comprises the polypeptide of (1) and the 2nd portion is an affinity tag, especially an IgFc polypeptide.

USE - The gene encodes a novel member of the type 2 cytokine receptor family (CRF2) designated Zcytor7, especially its extracellular domain. The sequences can be used to study the Zcytor7 gene and to isolate ligands binding to it. Zcytor7 is preferentially expressed in the kidney, pancreas, prostate or nervous tissue. Agonists of Zcytor7 can be used to stimulate proliferation and differentiation of cell in these organs.

(Ant)agonists can also be used in the treatment of renal, neural, pancreatic and prostate diseases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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